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SANITIZED VERSION OF EXTRACT FROM ENGINEERING DEVELOPMENT DEPARTMENT WEEKLY ACTIVITIES REPORT WEEK ENDING OCTOBER 16, 1959

(EXTRACTED FROM CRD DOCUMENT # KL-550/PT16)

Compiled by
S. G. Thornton
Environmental Management Division
OAK RIDGE K-25 SITE
for the Health Studies Agreement

December 21, 1995

Oak Ridge K-25 Site
Oak Ridge, Tennessee 37831-7314
managed by
LOCKHEED MARTIN ENERGY SYSTEMS, INC.
for the U.S. DEPARTMENT OF ENERGY
under Contract DE-AC05-84OR21400

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Report Number: KL-550, Part 16

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Date of Issue: October 26, 1959

ENGINEERING DEVELOPMENT DEPARTMENT
Weekly Activities Report
Week Ending October 16, 1959

[redacted]

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[redacted]

Trace Elements in the Cascade

A recent change in cascade product withdrawal procedure has drastically reduced the amount of molybdenum and tungsten withdrawn at 306-7. Consequently, these impurities must either build up in the cascade or be forced out the top purge. In order to check the latter possibility, four successive gas samples were taken at 312-1, cell 2, during an interval in which the purge flow was an estimated 10% above normal. Only the analyses have been completed to date, and these indicate an average purge concentration of 11.6 ppm. or a feed to the alumina traps of 21.5 grams of uranium per day. The corresponding space recorder reading was 28 ppm. uranium. The reported uranium collection efficiency of the alumina traps*, 20%, together with the measured uranium values, suggests that further consideration be given the efficiencies of both the alumina traps and the hydrolysis recovery unit proposed for the 312 section**.

* Engineering Development Department Weekly Activities Report, Week Ending July 18, 1959, Union Carbide Nuclear Company, Oak Ridge Gaseous Diffusion Plant, July 18, 1959 (KL-12, Part 26).

** Pashley, J. H., Hydrolysis Recovery of Uranium from Purge Gases, Union Carbide Nuclear Company, Oak Ridge Gaseous Diffusion Plant, March 3, 1959 (KL-384).

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